

TWENTIETH ANNUAL REPORT

OF

Mass
THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL
TRAINING SCHOOL.

JANUARY 1, 1912.



BOSTON:

WRIGHT & POTTER PRINTING CO., STATE PRINTERS,

18 POST OFFICE SQUARE.

1912.

Feb 7 1912

STATE HOUSE BOSTON.

APPROVED BY
THE STATE BOARD OF PUBLICATION.

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COMMISSIONERS
OF THE
MASSACHUSETTS NAUTICAL TRAINING SCHOOL.

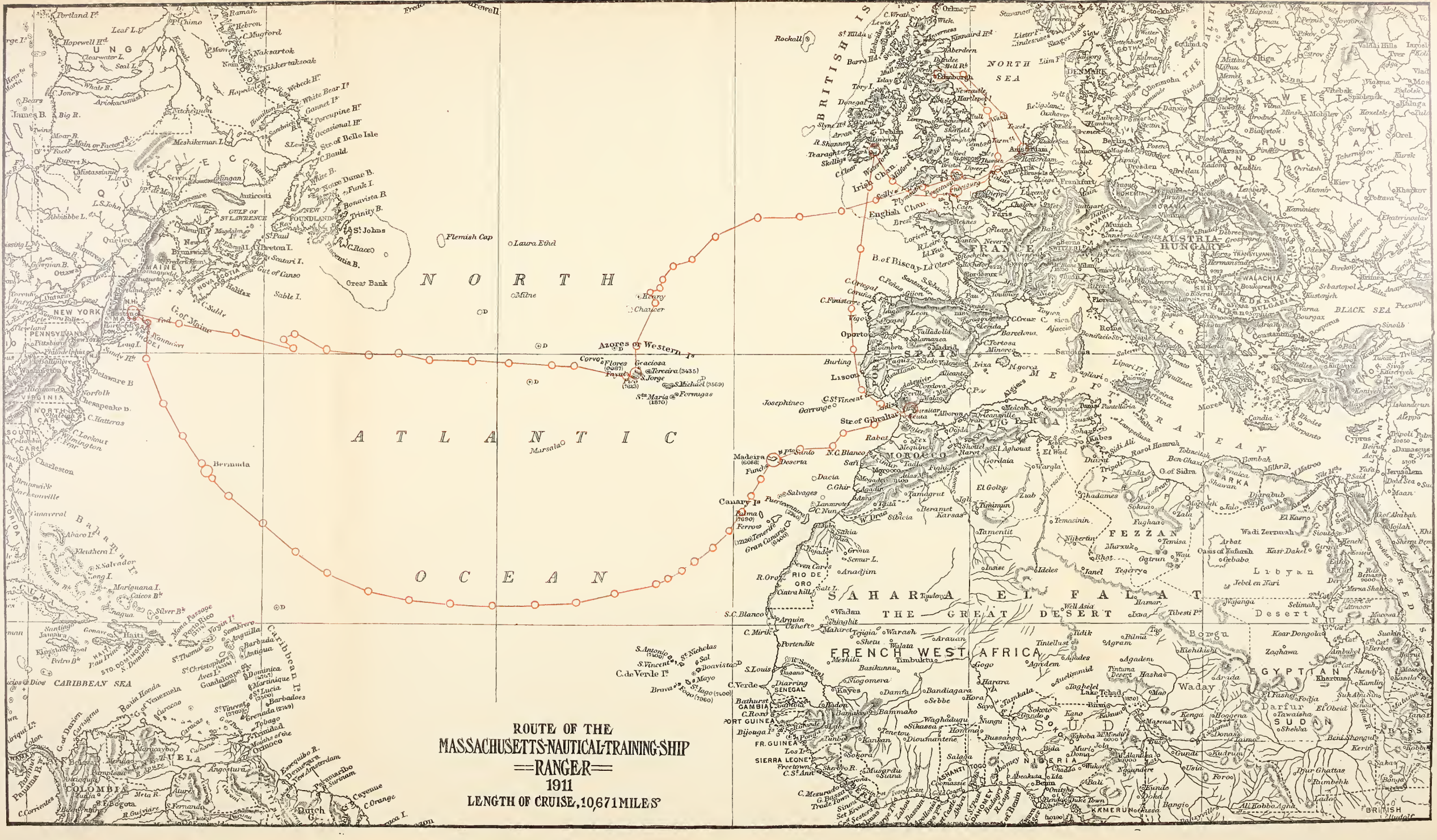
JOHN F. MERRY, *Chairman.*

REAR ADMIRAL, U. S. N. (RETIRED).

HON. JOHN READ, LATE U. S. N.

WILLIAM E. MCKAY.

WILLIAM H. DIMICK, *Secretary.*



ROUTE OF THE
MASSACHUSETTS NAUTICAL TRAINING SHIP
—RANGER—
1911
LENGTH OF CRUISE, 10,671 MILES

The Commonwealth of Massachusetts.

MASSACHUSETTS NAUTICAL TRAINING SCHOOL.

To the Honorable Senate and House of Representatives of the Commonwealth of Massachusetts in General Court assembled.

The commissioners have the honor to submit their report of the operations of the school for the year 1911.

THE WORK IN GENERAL.

Under an able and energetic corps of officers and instructors, the work of the school has been maintained at a high standard of efficiency. The number of cadets in the school has been limited only by the capacity of the ship. While not in every respect of the most modern type, the equipment is well adapted for the work of the school.

The "Ranger" was docked at the Boston Navy Yard on April 5, and the following repairs were made to the hull: spar deck caulked; ship's underbody painted; valves, rudder-head and life-buoys overhauled; gaskets fitted to deck and cabin ports; patent scupper plugs fitted; davits altered for motor barge; ovens and galleys overhauled.

After the ship left the Navy Yard, the following repairs were made in the engineer's department: auxiliary feed water line to boilers installed; grease extractor installed; plates and angles at waterway renewed. A wireless telegraph apparatus was installed, and a new lathe and other tools were added to the machine shop equipment. It was also found necessary to renew the trysail and fore topmast staysail. The Navy Department furnished the "Ranger" with a motor barge and a gig.

During the coming year it will be necessary to supply a new evaporator shell, and to make extraordinary repairs to the main engine, fire and bilge pumps, and the air and circulating pumps.

Persistent efforts have been made to bring graduates in touch with marine superintendents, captains and other employers of officers. More graduates have been placed than in any previous year. At times it has been impossible to find available graduates to fill desirable positions.

Many courtesies have been extended to the commissioners by the authorities of the Boston Navy Yard, and especially by Capt. DeWitt Coffman, U. S. N., commandant of the yard.

A PUBLIC LANDING.

Since the school was established, nineteen years ago, the commissioners have felt the need of a public landing in Boston. At European ports there are available convenient and attractive municipal landing places, far superior to the unsightly and primitive private landing which the crew and cadets are compelled to use in Boston. It is hoped that the construction of proper public landing places will be included in the comprehensive scheme which is about to be worked out for the development of the port of Boston.

PERSONNEL.

Rear Admiral Geo. F. F. Wilde, U. S. N., a commissioner of the school for nearly six years, died at his home in North Easton on Dec. 3, 1911. He was appointed a member of the commission on Feb. 7, 1906, and was elected chairman on Feb. 21, 1906. Rear Admiral Wilde was deeply interested in the work and always zealous in promoting its highest welfare.

On Dec. 13, 1911, His Excellency the Governor nominated Rear Admiral John F. Merry, U. S. N., of Somerville, as a commissioner. The nomination was confirmed by the Executive Council on December 20. He was elected chairman Jan. 1, 1912. The new commissioner is thoroughly familiar with the work and its needs, as he organized the school and served as superintendent the first three years of its establishment, on board the U. S. S. "Enterprise," from Nov. 29, 1892, until Nov. 30, 1895.

July 1, 1911, William E. McKay was reappointed a commissioner for three years.

On Feb. 23, 1911, Comdr. William F. Low, U. S. N., who was superintendent of the school for eight years, tendered his

resignation to take effect at the close of the school term, April 1. He was succeeded by Comdr. Charles N. Atwater, U. S. N., formerly superintendent of the Pennsylvania Nautical School. Commander Atwater's active service in the navy covered a period of thirty-three years, of which more than seventeen years were spent at sea. His large experience in preparing young men for a sea-faring career qualifies him to maintain the high standard of nautical education which has existed in Massachusetts during the past nineteen years.

April 8, 1911, Chief Boatswain John Danner, U. S. N., detached.

April 16, 1911, Chief Boatswain Harry R. Brayton, U. S. N., ordered to the "Ranger" and appointed executive officer. Mr. Brayton previously served as executive officer of the "Enterprise" from June 15, 1907, to April 4, 1908.

Nov. 13, 1911, Boatswain Albert Seeckts, U. S. N., watch officer, detached.

Nov. 13, 1911, Chief Boatswain Frank Miller, U. S. N., ordered to the "Ranger" and appointed watch officer.

THE SUMMER TERM.

The summer term commenced on May 8 with an enrolment of 104 cadets. On May 11 the "Ranger" sailed on the usual preliminary cruise to Provincetown, returning to Boston on May 24. On May 25 the ship was inspected by the commissioners. Among those present were the commandant of the Navy Yard, the legislative committee on military affairs, and members of the committee on maritime affairs of the Boston Chamber of Commerce.

The inspection of the school by His Excellency the Governor and Council took place on June 1. The ship steamed out a short distance beyond Boston Light, and during the time the cadets were exercised at sail drill, fire drill, "abandon ship" drill, "man overboard" drill, and setting up exercises. In the "man overboard" drill the buoy was picked up in one minute and forty seconds. Addresses were made by Governor Foss, Lieutenant-Governor Frothingham and others.

The "Ranger" sailed from Boston for Horta, Azores, on June 3. The annual cruise, covering a period of five months

and fourteen days, was one of the longest and most satisfactory in the history of the school. The ship sailed 10,671 miles without a serious mishap of any kind. Much time was spent in cruising under sail alone, with all sails set, for the instruction of the cadets. The ship proceeded under sail alone for twenty-eight days. The observation of European docks and shipping at Amsterdam, Leith, Southampton, Queenstown and Cherbourg afforded the cadets large opportunities for gaining valuable knowledge in the line of their profession. The "Ranger" arrived in President Roads on October 25, and on the day following anchored in the upper harbor, where the ship and cadets were inspected by the commissioners.

The report of Comdr. Charles N. Atwater, U. S. N., superintendent of the school, on the annual cruise, is as follows: —

The annual overhauling of the "Ranger" was completed in time to receive the cadets on board on May 8. On May 12 she proceeded to Provincetown, where eleven days were spent at exercises and drills for accustoming the new cadets to their duties and enabling the old ones properly to assume fresh responsibilities. On June 3, two days after the ship was inspected by the Governor, she sailed from Boston on her summer cruise, an itinerary of which is appended.

Over one-half of the five months the "Ranger" was away was spent at sea, and during this time the cadets stood watch and watch on deck, or in three watches in the engine and fire rooms while steaming, in order to accustom them to the service conditions of the merchant marine and gain all the practical experience possible. In addition to the usual port drills and exercises the cadets were kept out pulling and sailing in boats as much as possible, and whenever the weather was unfavorable for out-door exercises class work was carried on in the various professional branches.

Liberal shore leave was granted the cadets, but emphasis was laid upon the fact that such leave was a privilege and not a right. Cadets whose conduct and application warranted it usually found themselves free to go ashore every other afternoon, and from 10 A.M. until sunset on either Saturday or Sunday, while the few who misbehaved or neglected their work found themselves obliged to remain on board to work off their demerits at extra duty. Nearly one-half of the cadets were never on the report during the cruise, not even for such trivial offenses as inattention at studies, late at formation or clothing not brushed. While the privilege of seeing various countries is of the greatest educational value, it would encourage lawlessness and indifference to grant it without restriction to all alike. However, almost every cadet was ashore at least once in each port visited.

The cadets are a fine average of self-respecting and earnest young men. It is gratifying to observe that the qualities of manliness, self reliance and responsibility may almost be measured by the time a class of cadets has been in the school, which indicates that the school is one of character as well as of attainment.

SEAMANSHIP.

The cadets of the two lower classes were instructed in making bends, hitches, knots and splices; in the names of the parts of the ship and of her tackle and equipment, such as spars, sails, anchors and chains; in work aloft loosing, furling, reefing and making and taking in sail; in marking and heaving the lead and the chip log; in compass and steering, and in standing lookouts; in signalling, and in other routine duties of seamen.

The cadets of the first and second classes were taught the duties and responsibilities of sea officers and petty officers. They stood watch as boatswains and quartermasters, and day watches as officer of the deck under sail and under steam. It was occasionally their duty to make and take in sail and even to take charge and give orders at sail drill. They acted as coxswains of boats. In general as much responsibility as possible was placed upon them.

NAVIGATION.

The work during the summer cruise was mostly practical, although some time at Amsterdam and Cherbourg was given to theoretical instruction. As far as possible all subjects taught during the winter's term were applied.

The senior cadets were given ample opportunity to perfect themselves in dead reckoning, course and distance by middle latitude, sailing and Mercator sailing, taking departure, setting courses, plotting positions, latitude and longitude by observation, azimuths, comparing chronometers, use of charts, sailing directions, tide table, light lists, and use and adjustment of instruments.

The junior cadets were instructed in boxing the compass, the elements of dead reckoning, use of hand lead and sounding machine, keeping the log and the use of the various instruments of navigation. This practical experience will be of great help during the coming winter term.

Each day, while at sea, the senior cadets were required to pass in the following: noon position by dead reckoning and observation, course and distance made good since preceding noon, set and drift of current during preceding day, compass error and deviation on one heading.

While on the coast cadets were given an opportunity of observing the various methods practiced in coastwise navigation, both by day and night.

The patent sounding machine was used constantly while on soundings.

MARINE ENGINEERING.

Senior Cadets.—Firing, water tending, oiling, care and operation of boilers and engines while getting under way, running and coming to anchor after a run; care of boilers while foaming or priming, and the use of the salinometer for determining density and the litmus-test for acidity of water in boilers; examination of boilers, engines, pumps, dynamos, and engines of same, with such practical repairs as have come up from time to time during the cruise, as reseating and grinding in valves, making joints in pipe lines, packing rods and valves; examination of pistons, rings and springs of same, and lining up of pistons in cylinders; repairs to line and propeller shafts where dropped in after clutch; taking up lost motion in bearings and the use of leads to determine clearance in same; finding dead centers of engines and setting valves of same to correct errors shown by indicator diagrams; the indicator, care and operation; taking and working out diagrams by ordinates and planimeter (Coffin's averaging instrument); calculations for horsepower by logarithms and the common methods; propeller slip and kindred problems; operation and repairs of evaporator and distillers; handling, checking and stowing of coal when coaling ship. These cadets were examined monthly as to their general knowledge of location and use of the various valves, pipes and fittings within the department.

Junior Cadets.—Coal passing, firing, water tending, operation of evaporator and distillers, and tracing pipe lines.

COAL REPORT FROM MAY 11 TO OCT. 26, 1911.

	Tons.
Coal on hand and received,	904.07
Expended,	871.88
	<hr/>
Remaining on hand,	32.19
Expended as follows:—	
Galley,	26.63
Distilling,	65.41
Heating,	1.31
Dynamo and other auxiliaries,	259.94
Propulsion,	518.59
	<hr/>
Total,	871.88

ELECTRICAL WORK.

Junior Cadets.—Instruction in the use of electrical appliances aboard ships. Various faults, their detection and remedy; wiring, protective devices, types of lamps and fixtures; ship's lights, motors, generators, ventilating sets, etc., illustrated with apparatus. Wireless telegraph and submarine-bell receiving sets.

Senior Cadets.—Members of the engineering department were assigned successively to the operation of the electric plant, and had charge, under the supervision of the electrician, of the dynamos and lighting. They performed all the work of running the machines, made repairs to wiring, etc., removed troubles and kept the system working satisfactorily. Repairs were also made, as needed, to the wireless apparatus. A number of the cadets from both seamen and engineering divisions stood regular watches in the wireless room, taking and sending messages with passing ships and shore stations. Theoretical instruction by classes was given forenoons while the ship lay in foreign ports.

MEDICAL DEPARTMENT.

The health of the cadets during the cruise has been very good. There have been no serious accidents nor epidemics. At the beginning of the cruise all the cadets were vaccinated, 15 per cent. taking.

The fact that distilled water is used on the ship, and that the cadets are warned against drinking water or milk ashore in ports where sanitary conditions are not good, accounts for the absence of typhoid and dysentery.

The air space between decks has been at all times sufficient, and all sanitary conditions have been excellent. The gun deck has been sprinkled with a solution of formine every day, while once a week the gun deck bulkheads have been sprinkled with this solution.

Itinerary of Cruise of 1911.

May 6, cadet officers and crew captains reported from leave; May 8, cadets reported from leave; May 12, Boston to Provincetown; May 23, Provincetown to Boston; May 25, inspection by commissioners; June 1, inspection by Governor; June 3, sailed on cruise.

Ports.	Distance (Miles).	Left	Arrived.	Days at Sea.	Days in Port.
Boston-Horta,	2,025	June 3	June 18	15	-
Horta-Southampton,	1,407	June 21	July 5	13	3
Southampton-Leith,	560	July 17	July 20	3	12
Leith-Amsterdam,	395	July 27	July 29	2	7
Amsterdam-Cherbourg,	321	Aug. 7	Aug. 9	2	9
Cherbourg-Queenstown,	330	Aug. 17	Aug. 19	2	8
Queenstown-Gibraltar,	1,104	Aug. 29	Sept. 5	7	10
Gibraltar-Funchal,	627	Sept. 12	Sept. 17	5	7
Funchal-Bermuda,	3,075	Sept. 23	Oct. 15	22	6
Bermuda-Boston,	737	Oct. 21	Oct. 25	4	6
	10,671			75	52

October 25, arrived in President Roads; October 26, made fast to North End Park, cadets left ship on leave; seventy-five days at sea (twenty-eight days under sail alone, forty-seven days steaming), sixty-eight days in port; 10,671 miles total distance (2,455 under sail, 7,086 under steam).

THE WINTER TERM.

Immediately upon arrival in Boston the ship was berthed at the Marine Park, Commercial St. (between Chelsea ferry and Charlestown bridge), and preparations were made for opening the winter term on Monday, December 4.

Persons interested in the work of the school are cordially invited to visit the "Ranger" on any day except Saturday and Sunday, when the cadets are absent on home leave. Visitors will be courteously received and the objects and advantages of the school explained by the officers.

The following are the officers and instructors now connected with the school:—

Superintendent and commanding officer, Comdr. Charles N. Atwater, U. S. N.

Executive officer, Chief Boatswain Harry R. Brayton, U. S. N.

Chief engineer, Machinist John O'Neill, U. S. N.

Navigator, A. Russell Cushing (graduate M. N. T. S.).

Watch officer, Chief Boatswain Frank Miller, U. S. N.

Watch officer, Andrew J. Iverson (graduate M. N. T. S.).

Medical officer, Edmund L. Saunders, M.D.

Paymaster and captain's clerk, Theodore C. Howe, U. S. N.

Instructor in electricity, Henry C. Fisher.

REGISTER OF GRADUATES.

The following is an abstract from the register of graduates:—

Graduated.	NAME.	Residence.	Position.	Vessel.
1894	Henry G. Carpenter, ¹	Roxbury,	Captain,	"Frances Alice."
1894	James E. Reardon, ¹	Boston,	Captain,	"Miguelito."
1895	George E. Eaton,	Wakefield,	Captain,	"Anemone."
1896	Henry R. Bodge,	Wollaston,	Captain,	"St. Helens."
1896	Wm. N. P. Baker,	Dorchester,	Captain,	"Pathfinder."
1896	Alvin W. Haynes,	Somerville,	Captain,	"Allianca."
1897	Fred'k A. Sparks,	Provincetown,	Captain,	"Machigonne."
1897	Emery Rice,	Brighton,	Captain,	"Zafiro."
1898	Louis E. Congdon,	Boston,	Captain,	"Rio Grande."
1898	Carl E. A. Anderson,	Roslindale,	Captain,	"Nebraskan."
1900	James S. Howes,	Woods Hole,	Captain,	"Berkshire."
1901	Theo. H. Bicknell,	Melrose,	Captain,	"Tarantula."

¹ Transferred.

Graduated.	NAME.	Residence.	Position.	Vessel.
1902	Arthur T. Luther, . .	Swansea, . .	Captain, . .	Government vessel,
1895	Albert L. Warner, . .	Waverley, . .	First officer, . .	Panama Canal.
1896	George R. Lauriat, . .	Medford, . .	First officer, . .	"Eleazer W. Clark."
1897	Willis Howes,	S. Yarmouth, .	First officer, . .	"James Henry."
1898	Harlowe Johnson, . .	Mattapoissett, .	First officer, . .	"Parthian."
1898	Eldon G. Freeman, . .	Whitman, . .	First officer, . .	"Sequoia."
1899	Edward G. Smith, . .	Boston, . .	First officer, . .	"Coya."
1900	Alfred M. Cummings, .	Worcester, . .	First officer, . .	"Arethusa."
1900	E. Newton Parker, . .	Greenfield, . .	First officer, . .	"Nero."
1901	John J. Coholan, . . .	S. Boston, . .	First officer, . .	"Ajax."
1901	Robert W. Tucker, . .	Kendal Green, .	First officer, . .	"Ohio."
1901	Chas. D. Harrington, .	Cambridge, . .	First officer, . .	"H. M. Plant."
1902	Fred C. Seibert, . . .	Greenfield, . .	First officer, . .	"Vulcan."
1902	Osborne E. McKay, . .	Provincetown, .	First officer, . .	"Nanshan."
1902	Wm. I. O'Reilly, . . .	S. Boston, . .	First officer, . .	"Queen."
1902	Herman T. Parker, . .	Rockport, . .	First officer, . .	"Parthian."
1903	Robert B. Powers, . .	Brockton, . .	First officer, . .	"Hannibal."
1903	Benj. O'Connell, . . .	Peabody, . .	First officer, . .	"Colon."
1904	John F. Williamson, . .	Brockton, . .	First officer, . .	"Ivy."
1905	James A. Crocker, . .	Nahant, . .	First officer, . .	"Quantico."
1897	Chas. W. Clift,	Whitman, . .	Second officer, .	"McClellan."
1897	Mina Dailey,	Rockport, . .	Second officer, .	"Arthur Sewall."
1897	H. W. G. Atkins, . . .	Holliston, . .	Second officer, .	"Adansi."
1898	Charles H. Kilmer, . .	Somerville, . .	Second officer, .	"Leonidas."
1899	Walter S. Lynch, . . .	Chelsea, . .	Second officer, .	"Liberty."
1900	Walter Andrew, . . .	Jamaica Plain, .	Second officer, .	"Ligonier."
1902	Edwin J. Madden, . .	Everett, . .	Second officer, .	"St. Louis."
1902	Harry E. Boesch, . . .	Wakefield, . .	Second officer, .	"Momus."
1902	Arthur Jensen,	Provincetown, .	Second officer, .	"Hannibal."
1902	Wm. M. Chisholm, . .	N. Attleboro', .	Second officer, .	-
1903	Harry M. Bostwick, . .	Northbridge, . .	Second officer, .	"Vulcan."
1903	Mark Woodbury, . . .	Townsend, . .	Second officer, .	"City of Memphis."
1903	Andrew B. Chase, . . .	New Bedford, .	Second officer, .	"Wm. L. Walker."
1904	Leslie F. Holmes, . . .	E. Whitman, . .	Second officer, .	"Antilles."
1905	Harry M. Maynard, . .	Winthrop, . .	Second officer, .	"Mayflower."
1908	Eugene P. Shevlin, . .	E. Boston, . .	Second officer, .	"Azalea."
1907	Elmer B. Small,	N. Truro, . .	Second officer, .	"Justin."
1900	Wm. B. Knight,	Hull, . .	Third officer, . .	"City of Seattle."
1902	F. J. Butterfield, . .	Haverhill, . .	Third officer, . .	Army Transport.

Graduated.	NAME.	Residence.	Position.	Vessel.
1903	Harold C. Rideout,	Concord, .	Third officer, .	"El Alba."
1905	Harold H. Gridley, .	Dorchester, .	Third officer, .	"Brutus."
1906	Wm. H. Lee, . . .	Boston, . .	Third officer, .	"Vestal."
1907	Harry L. Chick, . .	Beverly, . .	Third officer, .	"Justin."
1907	Wm. M. Gifford, . .	Woods Hole, .	Third officer, .	"Cyclops."
1907	Walter L. Smith, . .	Ashburnham, .	Third officer, .	"Prometheus."
1911	Eric E. Winquist, . .	Jamaica Plain, .	Third officer, .	"Abarenda."
1911	Ernest F. Robinson, .	E. Boston, .	Third officer, .	"Hannibal."
1911	Wm. A. Sillars, . . .	Danvers, . .	Third officer, .	"Ajax."
1911	Edw. S. Ells, . . .	Cambridge, .	Third officer, .	"Arethusa."
1900	Jos. E. Gately, . . .	Marlboro', .	Fourth officer, .	"St. Paul."
1911	Henry O. K. Hanson, .	Neponset, .	Mate, . . .	"Paula."
1902	A. Russell Cushing, .	Dorchester, .	Navigating officer.	"Ranger."
1904	Andrew J. Iverson, . .	Salem, . .	Watch officer, .	"Ranger."
1895	Philip W. Lauriat, . .	Medford, . .	1st Lieut., U. S. R. C. S.	"Seneca."
1899	Jas. A. Alger, . . .	Reading, . .	2d Lieut., U. S. R. C. S.	"Seneca."
1900	John F. McGourty, . .	Worcester, . .	2d Lieut., U. S. R. C. S.	"Mohawk."
1906	Wm. F. Towle, . . .	Boston, . .	2d Lieut., U. S. R. C. S.	"Seneca."
1898	F. B. Harwood, . . .	Rockport, . .	3d Lieut., U. S. R. C. S.	"Bear."
1911	Edward C. Roberts, . .	Beverly, . .	1st Lieut., U. S. R. C. S.	"Philippine."
1898	Clarence E. Wood, . .	Fall River, .	Lieut., . . .	U. S. Navy.
1907	Thomas Baxter, . . .	S. Dennis, . .	Midshipman, . .	"North Dakota."
1898	George F. Waite, . . .	Winthrop, . .	Chief inspector of steamboats.	Providence, R. I.
1895	George A. Collie, . . .	Worcester, . .	Nautical expert, .	Navy department.
1896	Charles S. Young, . . .	Boston, . .	Nautical expert, .	Navy department.
1897	Fred'k W. Jones, . . .	Winchester, .	Nautical expert, .	Navy department.
1900	Gershom Bradford, . .	Duxbury, . .	Nautical expert, .	Navy department.
1903	Leander A. Clapp, . . .	Brockton, . .	2d Lieut., . . .	U. S. Marine Corps.
1906	Clarence E. Nutting, .	Cambridge, .	2d Lieut., . . .	U. S. Marine Corps.
1895	Charles H. Lincoln, . .	Gloucester, .	Chief engineer, .	"Aztec."
1896	Jas. H. B. Meehan, . .	Lowell, . . .	Chief engineer, .	"Vulcan."
1898	Charles E. Rowe, . . .	Lynn, . . .	Chief engineer, .	"Nanshan."
1898	John C. Ganser, . . .	Jamaica Plain, .	Chief engineer, .	"Carribean."
1898	Everett S. Ransom, . .	Mattapoisett, .	Chief engineer, .	"Parthenia."
1899	Frank B. Davis, . . .	Dorchester, .	Chief engineer, .	"Olivette."
1899	Forrest D. Clark, . . .	Dorchester, .	Chief engineer, .	"Harvard."
1900	Hollis M. Cornwall, . .	Melrose, . . .	Chief engineer, .	"Persian."
1900	William Glover, . . .	Wilmington, .	Chief engineer, .	"Iris."
1900	Norris R. Sibley, . . .	Worcester, . .	Chief engineer, .	"Frances Hyde."

Graduated.	NAME.	Residence.	Position.	Vessel.
1900	Charles E. Lowe, . .	Roxbury, . .	Chief engineer, .	"Mackinaw."
1900	Elmer P. Butterworth, .	Foxboro', . .	Chief engineer, .	"J. M. Guffey."
1901	Eugene I. K. Murphy, .	Worcester, . .	Chief engineer, .	Government vessel, Panama Canal.
1902	Daniel F. Butler, . .	North Easton, .	Chief engineer, .	
1895	Michael D. Sullivan, . .	Boston, . . .	First engineer, .	"Enterprise."
1896	Forrest H. McIntyre, .	Gloucester, . .	First engineer, .	"Daniel Millard."
1897	Augustus T. Holmes, . .	Ipswich, . . .	First engineer, .	"J. M. Guffey."
1898	Frank P. Killion, . . .	Malden, . . .	First engineer, .	"Kanai."
1898	Wilbur S. Lamont, . . .	Leominster, . .	First engineer, .	"Pocomoke."
1900	J. J. Donohoe,	Cambridge, . .	First engineer, .	"Oregon."
1900	James F. Rawdon, . . .	Worcester, . .	First engineer, .	"Tuscan."
1901	Robert A. Patterson, .	Brighton, . . .	First engineer, .	"Vulcan."
1904	Charles W. Bumpus, . .	Wakefield, . .	First engineer, .	"Cape Ann."
1905	Walter C. Lockhart, . .	Wakefield, . .	First engineer, .	"Cæsar."
1895	Fred'k H. Stackpole, . .	Hyde Park, . .	Second engineer, .	"City of Brockton."
1896	James O. Sargent, . . .	Worcester, . .	Second engineer, .	"St. Louis."
1897	Perley W. Kimpton, . .	Somerville, . .	Second engineer, .	"Shawmut."
1898	Arthur P. Stevens, . . .	Nantucket, . .	Second engineer, .	"Ponce."
1900	Ressie E. Bowser, . . .	N. Abington, . .	Second engineer, .	"Nero."
1900	Earle P. Marshall, . . .	North Easton, .	Second engineer, .	"Uruguay."
1901	Sidney A. Maglathlin, .	W. Bridgewater, .	Second engineer, .	"Arethusa."
1901	David W. Warren, . . .	Boston,	Second engineer, .	"Melrose."
1902	Augustus W. Hart, . . .	N. Truro, . . .	Second engineer, .	"Chippewa."
1902	Ernest L. Saunders, . .	Brockton, . . .	Second engineer, .	"Hector."
1903	Edward A. Mercer, . . .	Cambridge, . .	Second engineer, .	"Prometheus."
1903	James S. McGarry, . . .	Shrewsbury, . .	Second engineer, .	"El Paso."
1904	Cecil L. McIntyre, . . .	Upton,	Second engineer, .	"Carib."
1905	Thomas W. Chisholm, . .	N. Billerica, . .	Second engineer, .	"Arethusa."
1906	A. C. Caldwell,	Dorchester, . .	Second engineer, .	"Ajax."
1907	George H. Stickney, . . .	Watertown, . .	Second engineer, .	"Cyclops."
1903	Rudolph Komenda, . . .	Somerville, . .	Third engineer, .	"Hannibal."
1905	Charles F. Tarr,	Taunton, . . .	Third engineer, .	"Mars."
1906	Bradford N. A. Gladding, .	New Bedford, . .	Third engineer, .	"Massachusetts."
1906	John C. Sheedy,	Malden,	Third engineer, .	"Admiral Schley."
1907	Archie E. Bragg,	Woods Hole, . .	Third engineer, .	"Hannibal."
1907	Joseph R. Wier,	Saundersville, .	Third engineer, .	"Brutus."
1908	Arthur E. Whiton, . . .	Wakefield, . .	Third engineer, .	"Justin."
1908	George H. Cameron, . . .	Wakefield, . .	Third engineer, .	"Leonidas."
1908	Thomas B. Pellett, . . .	Worcester, . .	Third engineer, .	"Cyclops."

Graduated.	NAME.	Residence.	Position.	Vessel.
1910	Ernest B. Wyatt, . . .	Wakefield, . . .	Third engineer, . . .	"Vulcan."
1911	Paul R. Smith, . . .	Concord, . . .	Third engineer, . . .	"Mongolia."
1911	Fred'k M. Coughlin, . . .	N. Dairmouth, . . .	Third engineer, . . .	"Neptune."
1896	Webb C. Maglathlin, . . .	Bridgewater, . . .	2d Lieut., Eng., U. S. R. C. S.	"Perry."
1897	Lorenzo C. Farwell, . . .	Dorchester, . . .	2d Lieut., Eng., U. S. R. C. S.	"Forward."
1897	Albert F. Patterson, . . .	Townsend, . . .	2d Lieut., Eng., U. S. R. C. S.	"Woodbury."
1898	Joseph E. Sheedy, . . .	Reading, . . .	2d Lieut., Eng., U. S. R. C. S.	"Thetis."
1898	John T. Carr, . . .	Malden, . . .	2d Lieut., Eng., U. S. R. C. S.	"Snahomish."
1906	Henry C. Roach, . . .	New Bedford, . . .	3d Lieut., Eng., U. S. R. C. S.	"Androscoggin."
1896	H. E. Kershaw, . . .	Lawrence, . . .	Warrant machinist.	U. S. Navy.
1898	Herbert E. Fish, . . .	Mattapoisett, . . .	Warrant machinist.	"New Jersey."
1895	S. B. Gaylord, . . .	Boston, . . .	Machinist, . . .	"Newark."
1905	Fred G. Carlton, . . .	Maynard, . . .	Machinist, . . .	"New Jersey."
1906	C. Allan Holbrook, . . .	Marlboro', . . .	Machinist, . . .	"Idaho."
1900	Howard F. Dow, . . .	Lynn, . . .	Electrician, . . .	"Enterprise."
1902	John F. Murphy, . . .	Worcester, . . .	Electrician, . . .	"Viper."
1902	William H. O'Connor, . . .	Roxbury, . . .	Electrician, . . .	"Caesar."
1903	Fred S. Garland, . . .	Randolph, . . .	Electrician, . . .	"Alabama."
1903	Guy H. Hudson, . . .	Somerville, . . .	Electrician, . . .	"Alabama."
1904	Charles A. Hill, . . .	Melrose, . . .	Electrician, . . .	"Bay State."
1904	C. George Dyson, . . .	Billerica, . . .	Electrician, . . .	"Georgia."
1904	Joseph G. Whippen, . . .	Lynn, . . .	Electrician, . . .	"Rhode Island."
1905	Lawrence G. Kelley, . . .	Taunton, . . .	Electrician, . . .	"Illinois."
1905	John F. Kinnaly, . . .	S. Boston, . . .	Electrician, . . .	"Vermont."
1906	Carroll L. Morgan, . . .	Beverly, . . .	Electrician, . . .	"Connecticut."
1906	Louis H. Houghton, . . .	Worcester, . . .	Electrician, . . .	"Missouri."
1906	William R. Dolan, . . .	Worcester, . . .	Electrician, . . .	"Cleveland."
1907	Eugene E. Chaney, . . .	Arlington, . . .	Electrician, . . .	"Tacoma."
1907	Louis L. LaMontagne, . . .	Millers Falls, . . .	Electrician, . . .	"Pilgrim."
1910	Eugene F. Stephenson, . . .	Spencer, . . .	Electrician, . . .	"Neptune."
1911	William Bowen, . . .	Boston, . . .	Cadet engineer, . . .	U. S. Lighthouse Bureau.
1911	Ervin L. Kelley, . . .	Cambridge, . . .	Cadet engineer, . . .	U. S. Lighthouse Bureau.

CADETS ADMITTED, GRADUATED, AND HONORABLY DISCHARGED, FROM 1893 TO 1911, INCLUSIVE.

	ADMITTED.			GRADUATED.			HONORABLY DISCHARGED.			Withdrawn, dismissed, dropped, transferred.
	Sea- manship Class.	Engineer Class.	Totals.	Sea- manship Class.	Engineer Class.	Totals.	Sea- manship Class.	Engineer Class.	Totals.	
1893,	138	-	138	-	-	-	29	-	29	24
1894,	42	21	63	-	-	-	26	17	43	18
1895,	33	38	71	10	10	38	6	6	12	6
1896,	35	39	74	20	17	37	16	15	31	17
1897,	32	41	73	20	21	41	10	10	20	9
1898,	42	57	99	15	25	40	12	14	26	23
1899,	34	45	79	11	12	23	24	17	41	11
1900,	28	50	78	14	36	50	9	12	21	14
1901,	34	37	71	11	18	29	8	12	20	16
1902,	32	58	90	10	22	38	16	18	34	13
1903,	34	32	66	17	14	31	10	15	25	17
1904,	-	-	60	16	29	45	5	12	17	31
1905,	-	-	65	10	10	20	-	-	9	13
1906,	-	-	50	16	19	35	-	-	18	10
1907,	-	-	60	10	15	25	-	-	17	26
1908,	-	-	45	8	9	17	-	-	9	9
1909,	-	-	81	14	22	36	-	-	7	16
1910,	-	-	54	6	15	21	-	-	16	15
1911,	-	-	60	20	23	43	-	-	7	18
	-	-	1,380	243	320	569	-	-	402	315

^a Beginning in 1904, the cadets upon entrance are unclassified until their second year.

STATISTICS OF CADETS.

Cadets admitted during the Year 1911.

Number of cadets in the school Jan. 1, 1911,			99
Seamanship class,	22		
Engineer class,	28		
Nautical cadets,	49		
Total,	99		
Applications received, 1911,		107	
Applicants examined,	97		
Failed to appear for examination,	10		
Examined,		97	
Failed to pass mental examination,	27		
Failed to pass physical examination,	4		
Failed mentally and physically,	7		
Passed examinations,	59		
Passed examinations,	59		
Re-examined mentally and passed,	10		
Re-examined physically and passed,	2		
	71		
Failed to qualify after passing examinations,	2		
	69		
Total number admitted to school during 1911,			69
Total number connected with school during 1911,			168

Cadets withdrawn during the Year 1911.

Total number graduated,		43	
Seamanship class,	20		
Engineer class,	23		
Total number honorably discharged,	7		
Total number graduated and honorably discharged,		50	
Dropped from roll,	11		
Withdrawn,	7		
Total number withdrawn and dropped,		18	
Total graduated and withdrawn during 1911,			68
Number of cadets in the school Jan. 1, 1912,			100
Seamanship class,	17		
Engineer class,	18		
Nautical cadets,	65		

MEMBERSHIP OF THE SCHOOL.

Graduating Class, April, 1911.

Aicardi, Angelo A.,	South Boston.
Bailey, Clifford,	Ludlow.
Bartlett, William M., Jr.,	Nantucket.
Coakley, Patrick S.,	Malden.
Dexter, Harold S.,	Mattapoisett.
Downey, Frank L.,	North Easton.
Ela, Norris T.,	East Douglas.
Foque, Edwin N.,	West Medford.
Fulton, David J.,	Wollaston.
Gorham, William M.,	Winthrop.
Hanson, Henry O. K.,	Neponset.
Harrington, Luther E.,	Winthrop.
Hill, Jerome W.,	Chicopee.
Holmes, George T.,	Brockton.
Lockhart, George L.,	Wakefield.
Lynn, Walter P.,	Beverly.
Ober, Henry W.,	Everett.
Phinney, Robert F.,	Roslindale.
Plummer, Charles C.,	Cambridge.
Rich, Chester H.,	Roxbury.
Vose, Raymond C.,	Cambridge.
Ware, Albert L., Jr.,	Cambridge.
Whittemore, Roy G.,	Malden.

Graduating Class, October, 1911.

Besse, Wesley F.,	South Hanson.
Bickerstaff, Charles B.,	Nantucket.
Blanchard, Walter H.,	Gloucester.
Chisholm, Joseph C.,	North Billerica.
Ettinger, Horace G.,	Allerton.
Fornason, Charles F.,	Gloucester.
Hubbard, Guy R.,	Provincetown.
Johnson, George L. E.,	Worcester.
Lundergan, John P.,	Brockton.
Macleod, Levi E.,	Gloucester.
Marques, Alfred,	Charlestown.
McArdle, Arthur,	Sandwich.
Miller, Eugene W.,	East Saugus.
Routledge, Richard J.,	Waverley.
Russo, John A.,	Roxbury.
Shaw, Frederick J.,	Cambridge.
Shaw, Lloyd S.,	Hull.

Simpson, William O.,	.	.	.	.	.	Nantucket.
Thorndike, Harvey M.,	.	.	.	.	.	Swampscott.
White, Samuel D.,	.	.	.	.	.	Hyannisport.

Class to graduate, April, 1912.

Acorn, Albert H., Jr.,	.	.	.	.	.	Quincy.
Birdsall, John A.,	.	.	:	.	.	Melrose.
Brewster, Walter L.,	.	.	.	.	.	Somerville.
Cavanaugh, Richard J.,	.	.	.	.	.	New Bedford.
Ertel, Harold L.,	.	.	.	.	.	Longmeadow.
Fawcett, James D.,	.	.	.	.	.	Dorchester.
Horton, Chester A.,	.	.	.	.	.	Somerville.
Howard, Clarence L.,	.	.	.	.	.	Boston.
Leavitt, Harold S.,	.	.	.	.	.	Stoughton.
Moore, Edward A., Jr.,	.	.	.	.	.	Forest Hills.
Morse, Chester L.,	.	.	.	.	.	Franklin.
O'Connell, Richard K.,	.	.	.	.	.	North Easton.
O'Donoghue, William H.,	.	.	.	.	.	Roxbury.
Perkins, Alexander G., Jr.,	.	.	.	.	.	Newburyport.
Preston, Frank M.,	.	.	.	.	.	Byfield.
Thompson, John W.,	.	.	.	.	.	Marion.
Vlass, Roy L.,	.	.	.	.	.	Marlborough.
Winslow, Harold S.,	.	.	.	.	.	Canton.

Class to graduate, October, 1912.

Bickerstaff, Richard C.,	.	.	.	.	.	Nantucket.
Buckley, Daniel G.,	.	.	.	.	.	Gloucester.
Burns, Herbert A.,	.	.	.	.	.	New Bedford.
Cahoon, Kenneth E.,	.	.	.	.	.	West Tisbury.
Crocker, John W.,	.	.	.	.	.	Nahant.
Culley, Albert W.,	.	.	.	.	.	Fitchburg.
Daniel, Joseph M.,	.	.	.	.	.	Osterville.
Davison, George R.,	.	.	.	.	.	Springfield.
Eastman, Russell A.,	.	.	.	.	.	West Dennis.
Folger, Ellenwood,	.	.	.	.	.	Siasconset.
Gray, Robert M.,	.	.	.	.	.	Melrose Highlands.
Hamilton, William A.,	.	.	.	.	.	Cliftondale.
Marks, John M.,	.	.	.	.	.	Gloucester.
McGowan, Francis J.,	.	.	.	.	.	Somerville.
Merrill, Norman E.,	.	.	.	.	.	Walpole.
Merithew, Ralph E.,	.	.	.	.	.	Haverhill.
Racicot, Louis H.,	.	.	.	.	.	Lowell.
Smith, Ralph N.,	.	.	.	.	.	Worcester.
Sylvaro, Joseph B.,	.	.	.	.	.	Nantucket.

Class to graduate, April, 1913.

Balboni, Charles J.,	New Bedford.
Beaudry, Raymond H.,	Springfield.
Burt, Arthur G.,	New Bedford.
Chase, Walter H.,	Plainville.
Code, Ralph J.,	Randolph.
Cropley, George R.,	Lynn.
Curtis, John C.,	Dorchester.
Deneen, Joseph D.,	New Bedford.
Fanning, Philip J.,	Needham.
Fawcett, Joseph,	Dorchester.
Fletcher, Waldo A.,	Allston.
Fogarty, Edward J.,	East Boston.
Goldthwait, Rutledge S.,	New Bedford.
Hathaway, Albert G.,	East Mattapoisett.
Hilles, Vernon S.,	Melrose Highlands.
Hipson, Athelston Y.,	East Boston.
Hodges, Alden L.,	Boston.
Howland, Frederick L.,	South Dartmouth.
Hughes, Alfred E.,	Canton.
Johnson, Albert W.,	Cambridge.
Laskey, Arnold A.,	Cambridge.
MacCabe, James A.,	Osterville.
Maddock, John A.,	Newburyport.
Peterson, Nils J.,	Brockton.
Phillips, Paul H.,	Huntington.
Rice, Paul S.,	Newton Centre.
Seuss, George W.,	Marlborough.
Sullivan, George,	New Bedford.
Tuell, Borden A.,	New Bedford.
Waldron, Philip H.,	Westborough.
Webster, Louis F.,	Cambridge.
Wells, Alfred J., Jr.,	Norwood.
White, Richard H.,	Cambridge.

Class to graduate, October, 1913.

Andrews, Firth B.,	Melrose.
Azevedo, Joseph F.,	North Dartmouth.
Bowman, James L.,	Central Village.
Buckley, William A.,	Winthrop.
Cole, John C.,	Roxbury.
Crowley, Richard J.,	Brockton.
Dearborn, Ralph W.,	Mansfield.
Earle, Milton E.,	Fall River.

Hayden, Sherman D.,	.	.	.	.	.	Quincy.
Houston, John F., Jr.,	.	.	.	.	.	Jamaica Plain.
Lewis, Earle A.,	.	.	.	.	.	Woods Hole.
Martin, Charles A.,	.	.	.	.	.	Lawrence.
McIntire, Waldon A.,	.	.	.	.	.	East Gloucester.
McLay, Russell A.,	.	.	.	.	.	Lawrence.
Morrow, Robert, Jr.,	.	.	.	.	.	Lowell.
Nelson, Frank H.,	.	.	.	.	.	Fall River.
Newell, Edward D.,	.	.	.	.	.	Gloucester.
Nichols, Gregory B.,	.	.	.	.	.	Danvers.
O'Connell, Thomas A.,	.	.	.	.	.	Roxbury.
Peterson, Carl M.,	.	.	.	.	.	East Gloucester.
Senior, Wilfred H.,	.	.	.	.	.	Boston.
Shattuck, Oliver P.,	.	.	.	.	.	West Acton.
Stainforth, Frederick A.,	.	.	.	.	.	Winthrop.
Swinson, Everett O.,	.	.	.	.	.	East Gloucester.
Trowbridge, Joseph C., Jr.,	.	.	.	.	.	Stoughton.
Taggart, Elmer D.,	.	.	.	.	.	Wakefield.
Wermuth, Eugene F.,	.	.	.	.	.	Boston.
Whitehead, Warren M.,	.	.	.	.	.	Reading.
Wilde, Phillips B.,	.	.	.	.	.	Woods Hole.

APPROPRIATIONS.

The appropriations for the school for the fiscal year 1911, from Dec. 1, 1910, to Nov. 30, 1911, are here accounted for as follows: —

Current Expenses.

Appropriation,	\$60,000 00
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Expended: —

Pay roll,	\$29,387 10
Provisions,	14,316 36
Text-books, stationery and printing,	427 19
Seamanship department,	2,926 84
Engineering department,	7,251 02
Repairs,	2,440 09
Miscellaneous,	3,244 83
Total amount expended,	<hr/> 59,993 43

Balance unexpended,	\$6 57
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Office Expenses.

Appropriation,	\$5,000 00
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Expended: —

Salaries,	\$2,889 00
Advertising,	812 41
Printing,	240 10
Commissioners' expenses,	249 90
Stationery and postage,	376 05
Miscellaneous,	430 01
Total amount expended,	<hr/> 4,997 47

Balance unexpended,	\$2 53
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Respectfully submitted,

JOHN F. MERRY,

REAR ADMIRAL, U. S. N. (RETIRED).

HON. JOHN READ, LATE U. S. N.

WILLIAM E. MCKAY.

FEDERAL AND STATE LEGISLATION.

AUTHORITY OF THE UNITED STATES.

H. R. 24145. APPROVED MARCH 4, 1911.

AN ACT FOR THE ESTABLISHMENT OF MARINE SCHOOLS, AND FOR
OTHER PURPOSES.

That the Secretary of the Navy, to promote nautical education, is hereby authorized and empowered to furnish, upon the application in writing of the governor of a State, a suitable vessel of the navy, with all her apparel, charts, books, and instruments of navigation, provided the same can be spared without detriment to the naval service, to be used for the benefit of any nautical school, or school or college having a nautical branch, established at each of the following ports of the United States: Boston, Philadelphia, New York, Seattle, San Francisco, Baltimore, Detroit, Saginaw, Michigan, Norfolk, and Corpus Christi, upon the condition that there shall be maintained at such port a school or branch of a school for the instruction of youths in navigation, steamship-marine engineering, and all matters pertaining to the proper construction, equipment, and sailing of vessels or any particular branch thereof.

SECTION 2. That a sum not exceeding the amount annually appropriated by any State or municipality for the purpose of maintaining such a marine school or schools or the nautical branch thereof is hereby authorized to be appropriated for the purpose of aiding in the maintenance and support of such school or schools: *provided, however*, that appropriations shall be made for one school in any port heretofore named in section one and that the appropriation for any one year shall not exceed twenty-five thousand dollars for any one school.

SECTION 3. That the President of the United States is hereby authorized, when in his opinion the same can be done without detriment to the public service, to detail proper officers of the navy as superintendents of or instructors in such schools: *provided*, that if any such school shall be discontinued, or the good of the naval service shall require, such vessel shall be immediately restored to the Secretary of the Navy and the officers so detailed recalled: *and*

provided further, that no person shall be sentenced to or received at such schools as a punishment or commutation of punishment for crime.

SECTION 4. That all laws and parts of laws in conflict herewith are hereby repealed.

AUTHORITY OF THE STATE OF MASSACHUSETTS.

CHAPTER 45, REVISED LAWS, AS AMENDED BY CHAPTER 171, ACTS OF 1903.

THE NAUTICAL TRAINING SCHOOL.

SECTION 1. There shall be a board of commissioners of the Massachusetts nautical training school consisting of three citizens of the commonwealth, one of whom shall annually, before the first day of July, be appointed by the governor, with the advice and consent of the council, for a term of three years from said first day of July.

SECTION 2. Said commissioners shall serve without compensation, but they shall be reimbursed by the commonwealth for all expenses actually incurred by them in the performance of their official duties.

SECTION 3. They shall provide and maintain a nautical training school for the instruction and training of pupils in the science and practice of navigation, shall provide accommodations for the school on board a proper vessel, purchase and provide books, stationery, apparatus and supplies needed in the work of the school, appoint and remove instructors and other necessary employees, determine their number and compensation, fix the terms and conditions upon which pupils shall be received and instructed in the school and be discharged or dismissed therefrom, establish all regulations necessary for its proper management and shall from time to time provide for cruises in or from the harbor of Boston.

SECTION 4. They may receive from the United States government, and use for the accommodation of the school, such vessels as the secretary of the navy may detail.

SECTION 5. They may annually expend such sum as the general court may from year to year appropriate, which shall be paid by the commonwealth; and they shall annually submit an estimate of the expense required in making cruises in or from the harbor of Boston, and the amount of said estimate, after approval by the governor and council and subject to the provisions of chapter six, shall be advanced to the commanding officer of the vessel detailed therefor, who shall give a bond in the sum of ten thousand dollars,

with sureties approved by the governor and council, for its proper disbursement. Said advance shall not exceed ten thousand dollars for six months, and shall be accounted for by properly approved vouchers within thirty days after the termination of said cruises.

SECTION 6. They shall annually, in January, report to the general court a detailed statement of all moneys appropriated and expended during the preceding year for the nautical training school, stating the results of the work during such year and making any necessary recommendations.

